

***** STN Columbus *****

FILE 'HOME' ENTERED AT 17:42:45 ON 23 SEP 2008

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 17:43:12 ON 23 SEP 2008

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FILE COVERS 1907 - 23 Sep 2008 VOL 149 ISS 13

FILE LAST UPDATED: 22 Sep 2008 (20080922/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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=> e us20070066848/pn

E1	1	US20070066846/PN
E2	2	US20070066847/PN
E3	1 -->	US20070066848/PN
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E10	1	US20070066855/PN
E11	1	US20070066856/PN
E12	1	US20070066857/PN

=> s e3

L1 1 US20070066848/PN

=> dall

DALL IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=).

=> d all

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:472504 CAPLUS
 DN 143:16219
 ED Entered STN: 03 Jun 2005
 TI Organo-electronic functional material and use thereof
 IN Akashi, Nobutaka; Shirota, Yasuhiko
 PA Bando Chemical Industries, Ltd., Japan
 SO PCT Int. Appl., 29 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 IC ICM H05B033-22
 CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
 Section cross-reference(s): 22, 76

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005051047	A1	20050602	WO 2004-JP17440	20041117
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GE, GH, GM, GR, HU, ID, IL, IN, IS, KE, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	JP 2005190993	A	20050714	JP 2004-331491	20041116
	JP 3881996	B2	20070214		
	EP 1696709	A1	20060830	EP 2004-799796	20041117
	R: DE, FR, GB				
	CN 1883233	A	20061220	CN 2004-80034444	20041117
	US 20070066848	A1	20070322	US 2006-580052	20060519 <---
PRAI	JP 2003-391882	A	20031121		
	JP 2003-404721	A	20031203		
	WO 2004-JP17440	W	20041117		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2005051047	ICM	H05B033-22
	IPCI	H05B0033-22 [ICM,7]
	IPCR	C09K0011-06 [I,C*]; C09K0011-06 [I,A]; H01L0051-00 [I,C*]; H01L0051-00 [I,A]; H05B0033-14 [I,C*]; H05B0033-14 [I,A]; H05B0033-22 [I,C*]; H05B0033-22 [I,A]
	ECLA	C09K011/06; H01L051/00M6F; H05B033/14; M09K; M09K; T01L; T01L
JP 2005190993	IPCI	H01L0051-50 [I,A]; C09K0011-06 [I,A]
	IPCR	C09K0011-06 [I,A]; C09K0011-06 [I,C*]; H05B0033-14 [I,A]; H05B0033-14 [I,C*]; H05B0033-22 [I,A]; H05B0033-22 [I,C*]
	FTERM	3K007/AB05; 3K007/AB11; 3K007/DB03; 3K007/FA01
EP 1696709	IPCI	H05B0033-22 [ICM,7]
	IPCR	H05B0033-22 [I,A]; C09K0011-06 [I,C*]; C09K0011-06 [I,A]; H01L0051-00 [I,C*]; H01L0051-00 [I,A]; H05B0033-14 [I,C*]; H05B0033-14 [I,A]; H05B0033-22 [I,C*]

CN 1883233 IPCI H05B0033-22 [I,A]
 IPCR H05B0033-22 [I,C]; H05B0033-22 [I,A]
 US 20070066848 IPCI C07C0211-54 [I,A]; C07C0211-00 [I,C*]; H01L0051-54 [I,A]; H01L0051-50 [I,C*]
 NCL 564/434.000; 257/040.000; 257/E51.051; 313/504.000; 313/506.000; 428/690.000; 428/917.000

AB The invention relates to an organo-electronic functional material comprising a tris(arylamino)benzene of the general formula: (I) (wherein A and B are groups of the general formula: (II) (in which R is a C1-C6 alkyl or a C5 or C6 cycloalkyl; and n is 0, 1, 2 or 3), which groups may be identical with or different from each other), and that in a cyclic voltogram, the organo-electronic functional material exhibits a deviation of peak current of 50-cyclic curve, measured at a sweep rate of 20 mV/s, falling within $\pm 10\%$ of the average of peak current. This organo-electronic functional material has photo-electron conversion capability, being reversible in oxidation-reduction and by itself can form an amorphous film. Further, not only is the glass transition temperature thereof high but also even in repeated oxidation-reduction, the change of peak current value is slight, ensuring stability. Therefore, the organo-electronic functional material can be appropriately used as, for example, a hole transport material in various electronic devices including organic electroluminescent devices.

ST organo electronic functional material electroluminescent device
 IT Electroluminescent devices
 (organic; organo-electronic functional material and its application for electroluminescent devices)

IT 147-14-8, Copper phthalocyanine 2085-33-8, Alq3 138143-23-4
 185690-41-9, 4,4',4''-Tris[N,N-(2-naphthyl)phenylamino]triphenylamine
 RL: DEV (Device component use); USES (Uses)
 (organo-electronic functional material and its application for electroluminescent devices)

IT 852641-11-3P
 RL: DEV (Device component use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
 (organo-electronic functional material and its application for electroluminescent devices)

IT 104216-55-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (organo-electronic functional material and its application for electroluminescent devices)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE
 (1) Mitsui Toatsu Chemicals Inc; JP 07-33717 A 1995 CAPLUS
 (2) Sony Corp; JP 2003178883 A 2003 CAPLUS
 (3) Sony Corp; JP 200368470 A 2003
 (4) Sony Corp; JP 200495491 A 2004
 (5) Tdk Corp; EP 0611148 A1 1994 CAPLUS
 (6) Tdk Corp; JP 07-48974 A 1995

=> delete select y
 ALL E# DEFINITIONS DELETED

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 E1 THROUGH E6 ASSIGNED

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 E2 1 138143-23-4/BI
 E3 1 147-14-8/BI

E4 1 185690-41-9/BI
E5 1 2085-33-8/BI
E6 1 852641-11-3/BI

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                               ENTRY      SESSION
FULL ESTIMATED COST          6.44      6.65

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                               ENTRY      SESSION
CA SUBSCRIBER PRICE              -0.80      -0.80
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STRUCTURE FILE UPDATES: 22 SEP 2008 HIGHEST RN 1051655-89-0
DICTIONARY FILE UPDATES: 22 SEP 2008 HIGHEST RN 1051655-89-0

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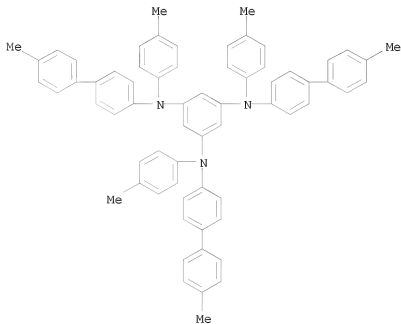
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1 138143-23-4/BI
  (138143-23-4/RN)
1 147-14-8/BI
  (147-14-8/RN)
1 185690-41-9/BI
  (185690-41-9/RN)
1 2085-33-8/BI
  (2085-33-8/RN)
1 852641-11-3/BI
  (852641-11-3/RN)
L2 6 (104216-55-9/BI OR 138143-23-4/BI OR 147-14-8/BI OR 185690-41-9/
    BI OR 2085-33-8/BI OR 852641-11-3/BI)
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YOU HAVE REQUESTED DATA FROM 6 ANSWERS - CONTINUE? Y/(N):y

L2 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN
RN 852641-11-3 REGISTRY
ED Entered STN: 21 Jun 2005

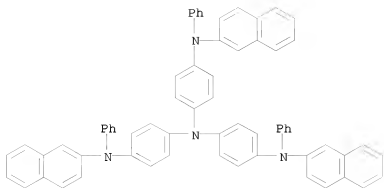
CN 1,3,5-Benzenetriamine, N1,N3,N5-tris(4'-methyl[1,1'-biphenyl]-4-yl)-
 N1,N3,N5-tris(4-methylphenyl)- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,3,5-Benzenetriamine, N,N',N''-tris(4'-methyl[1,1'-biphenyl]-4-yl)-
 N,N',N''-tris(4-methylphenyl)- (9CI)
 MF C66 H57 N3
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 185690-41-9 REGISTRY
 ED Entered STN: 04 Feb 1997
 CN 1,4-Benzenediamine, N1-2-naphthalenyl-N4,N4-bis[4-(2-naphthalenylphenylamino)phenyl]-N1-phenyl- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,4-Benzenediamine, N-2-naphthalenyl-N',N'-bis[4-(2-naphthalenylphenylamino)phenyl]-N-phenyl- (9CI)
 OTHER NAMES:
 CN 2TNATA
 CN 4,4',4''-Tris[2-naphthyl(phenyl)amino]triphenylamine
 CN 4,4',4''-Tris[N,N-(2-naphthyl)phenylamino]triphenylamine
 MF C66 H48 N4
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

184 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 187 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 138143-23-4 REGISTRY
 ED Entered STN: 03 Jan 1992
 CN 1,3,5-Benzenetriamine, N1,N3,N5-tris(3-methylphenyl)-N1,N3,N5-triphenyl-
 (CA INDEX NAME)

OTHER CA INDEX NAMES:

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 (9CI)

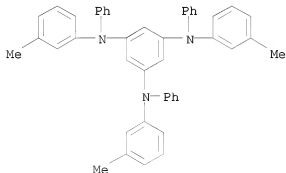
OTHER NAMES:

CN 1,3,5-Tris(3-methylphenylphenylamino)benzene

MF C45 H39 N3

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, USPAT2, USPATFULL
 (*File contains numerically searchable property data)

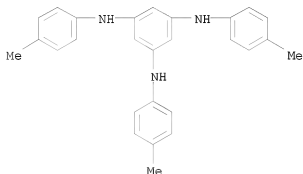


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17 REFERENCES IN FILE CA (1907 TO DATE)
 17 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN

RN 104216-55-9 REGISTRY
 ED Entered STN: 13 Sep 1986
 CN 1,3,5-Benzenetriamine, N,N',N''-tris(4-methylphenyl)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1,3,5-Benzenetriamine, N,N',N''-tri-p-tolyl- (6CI)
 OTHER NAMES:
 CN 1,3,5-Tris[(4-methylphenyl)amino]benzene
 CN N,N',N''-Tris(p-methylphenyl)-1,3,5-benzenetriamine
 MF C27 H27 N3
 SR CAOLD
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, USPAT2, USPATFULL, USPATOLD
 (*File contains numerically searchable property data)

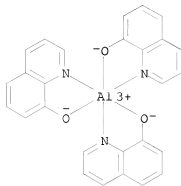


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1907 TO DATE)
 10 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 2085-33-8 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Aluminum, tris(8-quinolinolato-κN1,κO8)- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Aluminum, tris(8-quinolinolato)- (6CI, 7CI, 8CI)
 CN Aluminum, tris(8-quinolinolato-N1,O8)-
 OTHER NAMES:
 CN 8-Hydroxyquinoline aluminum
 CN Al 8Q
 CN Alq3
 CN Aluminum 8-hydroxyquinolate
 CN Aluminum oxinate
 CN Aluminum tris(8-hydroxyquinolate)
 CN Aluminum tris(8-quinolinolate)
 CN Aluminum, tris(8-hydroxyquinolinato)-
 CN Hydroxyquinoline aluminum
 CN Tri-8-quinolinolatoaluminum
 CN Tris(8-hydroxyquinolato)aluminum
 CN Tris(8-hydroxyquinolate)aluminum
 CN Tris(8-hydroxyquinolinato)aluminum
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 CN Tris(8-quinolinol)aluminum
 CN Tris(8-quinolinolato)aluminum

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 CN Tris-(8-hydroxyquinoline)aluminum
 DR 11094-99-8, 24731-66-6
 MF C27 H18 Al N3 O3
 CI CCS, COM
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 CHEMLIST, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB, MRCK*, PIRA, RTECS*,
 TOXCENTER, USPAT2, USPATFULL, USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7756 REFERENCES IN FILE CA (1907 TO DATE)
 35 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 7783 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 44 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 147-14-8 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Copper, [29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,.ka
 ppa.N32]-, (SP-4-1)- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 29H,31H-Phthalocyanine, copper complex
 CN 29H,31H-Phthalocyanine, copper deriv.

OTHER NAMES:

CN (Phthalocyaninato)copper
 CN α-Copper phthalocyanine
 CN α-Copper phthalocyanine blue
 CN α-Phthalocyanine blue
 CN β-Copper phthalocyanine blue
 CN β-Phthalocyanine blue
 CN ε-Copper phthalocyanine
 CN 127EPS
 CN 405D
 CN 7075M
 CN 79S26C
 CN 79S26C chip
 CN Accosperse Cyan Blue GT
 CN Acnalín Supra Blue G
 CN Acramin Blue F 3G
 CN Akrochem 626

CN Aqualine Blue
 CN Aquis BW 3571
 CN Arlocyanine Blue PS
 CN Aztech Chemisperse Cyan 1541
 CN B 4G-KR
 CN B 702W
 CN B 705H
 CN B 736
 CN B 8M25
 CN Bahama Blue BC
 CN Bahama Blue BNC
 CN Bahama Blue Lake NCNF
 CN Bahama Blue WD
 CN Bermuda Blue
 CN BFD 1121
 CN BGS 1
 CN BGSG-C
 CN BL 1531
 CN Blue 7110V
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 CN Blue GLSM
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 CN Blue pigment
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 CN C.I. 74160
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 CN C.I. Pigment Blue 15:1

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
 DISPLAY

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 37223-81-7, 69431-77-2, 78170-27-1, 78413-59-9, 85255-95-4, 85256-77-5,
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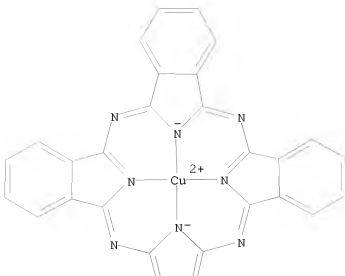
CI CCS, COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CAOLD,
 CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*,
 EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*,
 MSDS-OHS, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL,
 USPATOLD

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17524 REFERENCES IN FILE CA (1907 TO DATE)
 1286 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 17571 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 134 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	12.46	19.11
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.80

FILE 'REGISTRY' ENTERED AT 17:44:56 ON 23 SEP 2008
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STRUCTURE FILE UPDATES: 22 SEP 2008 HIGHEST RN 1051655-89-0
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=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L2 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L3 1 852641-11-3/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.55	19.66
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.80

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FILE COVERS 1907 - 23 Sep 2008 VOL 149 ISS 13
FILE LAST UPDATED: 22 Sep 2008 (20080922/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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=> S L3

L4 4 L3

=> DIS L4 1- IBIB IABS
YOU HAVE REQUESTED DATA FROM 4 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 11.64 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2008:156802 CAPLUS
DOCUMENT NUMBER: 148:225225
TITLE: Organic electroluminescent device
INVENTOR(S): Kobata, Tomokazu; Akashi, Nobutaka
PATENT ASSIGNEE(S): Bando Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 28pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2008015963	A1	20080207	WO 2007-JP64727	20070720
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
JP 2008041869	A	20080221	JP 2006-213068	20060804
PRIORITY APPLN. INFO.:			JP 2006-213068	A 20060804
OTHER SOURCE(S):	MARPAT 148:225225			
ABSTRACT:				

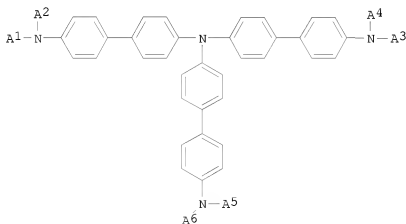
The invention relates to an organic electroluminescent device comprising a hole transport layer which contains a tri(p-terphenyl-4-yl)amine represented by a general formula (R1-C6H4-p-C6H4-p-C6H4) (R2-C6H4-p-C6H4-p-C6H4) (R3-C6H4-p-C6H4-p-C6H4)N as a hole transporting agent, where R1, R2 and R3 independently

represents a hydrogen atom, an alkyl group, a cycloalkyl group which may have a substituent, or an aryl group which may have a substituent; and a hole injection layer which contains a hole injecting agent comprising an aromatic tertiary amine having an ionization potential ranging from 5.2 to 5.6 eV. The organic electroluminescent device can operate at a low operation voltage, with high efficiency and at a high luminance.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:1129939 CAPLUS
 DOCUMENT NUMBER: 143:413605
 TITLE: Display element containing amine derivative
 INVENTOR(S): Onishima, Yasunori
 PATENT ASSIGNEE(S): Sony Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005294188	A	20051020	JP 2004-110869	20040405
PRIORITY APPLN. INFO.:			JP 2004-110869	20040405
OTHER SOURCE(S):	MARPAT 143:413605			
GRAPHIC IMAGE:				



ABSTRACT:

Disclosed is a display element comprising an organic layer consisting of a pos. hole transporting layer and a light emitting layer between anode and cathode, wherein said pos. hole transporting layer has a 3-layer structure, an intermediate layer of which contains I (A1-6 = H, Ph, naphthyl, etc.).

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:902553 CAPLUS

DOCUMENT NUMBER: 143:238366
 TITLE: Organic electroluminescent device
 INVENTOR(S): Kato, Tetsuya; Kojima, Kazushige
 PATENT ASSIGNEE(S): Denso Corporation, Japan
 SOURCE: U.S. Pat. Appl. Publ., 22 pp.
 CODEN: USXXCO

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050184657	A1	20050825	US 2005-61449	20050222
US 7374830	B2	20080520		
JP 2005276802	A	20051006	JP 2004-302986	20041018
KR 2006043123	A	20060515	KR 2005-14874	20050223
PRIORITY APPLN. INFO.:			JP 2004-49462	A 20040225
			JP 2004-302986	A 20041018

OTHER SOURCE(S): MARPAT 143:238366

ABSTRACT:

An organic EL device includes a pair of electrodes, a light emitter layer obtained by mixing a hole transporting material made of a tertiary amine compound, an electron transporting material and a light emitting additive. The tertiary amine compound constituting the hole transporting material has only one oxidation potential as measured by the cyclic voltammetry. A difference in ionization potential between the hole transporting material and electron transporting material of the light emitter layer is 0.35 eV or greater.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:472504 CAPLUS
 DOCUMENT NUMBER: 143:16219
 TITLE: Organo-electronic functional material and use thereof
 INVENTOR(S): Akashi, Nobutaka; Shirota, Yasuhiko
 PATENT ASSIGNEE(S): Bando Chemical Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 29 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005051047	A1	20050602	WO 2004-JP17440	20041117
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005190993	A	20050714	JP 2004-331491	20041116
JP 3881996	B2	20070214		
EP 1696709	A1	20060830	EP 2004-799796	20041117
R: DE, FR, GB				

CN 1883233	A	20061220	CN 2004-80034444	20041117
US 20070066848	A1	20070322	US 2006-580052	20060519
PRIORITY APPLN. INFO.:			JP 2003-391882	A 20031121
			JP 2003-404721	A 20031203
			WO 2004-JP17440	W 20041117

ABSTRACT:

The invention relates to an organo-electronic functional material comprising a tris(arylamino)benzene of the general formula: (I) (wherein A and B are groups of the general formula: (II) (in which R is a C1-C6 alkyl or a C5 or C6 cycloalkyl; and n is 0, 1, 2 or 3), which groups may be identical with or different from each other), and that in a cyclic voltagram, the organo-electronic functional material exhibits a deviation of peak current of 50-cyclic curve, measured at a sweep rate of 20 mV/s, falling within $\pm 10\%$ of the average of peak current. This organo-electronic functional material has photo-electron conversion capability, being reversible in oxidation-reduction and by itself can form an amorphous film. Further, not only is the glass transition temperature thereof high but also even in repeated oxidation-reduction, the change of peak current value is slight, ensuring stability. Therefore, the organo-electronic functional material can be appropriately used as, for example, a hole transport material in various electronic devices including organic electroluminescent devices.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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